

Training Content

Module	Program Content	Duration
Day-1	<p>Introduction to Data Science Applications of Data Science Data Science Methodology</p> <ul style="list-style-type: none"> - Business Understanding - Analytical Approach - Data Requirements - Data Collection - Data Understanding - Data Preparation - Data Modelling - Model Evaluation <p>Introduction to IBM and Watson Services</p> <ul style="list-style-type: none"> - Introduction to IBM Cloud - Introduction to AI in IBM Cloud - Watson Services <p>Data Wrangling</p> <ul style="list-style-type: none"> - Acquire the dataset - Import all the crucial libraries - Import the dataset - Identifying and handling the missing values - Encoding the categorical data - Handling the Outliers - Handling Inconsistent Data - Dimensionality Reduction Using PCA - Splitting the dataset - Feature scaling - <p>Lab: 1. Set-up IBM Watson Studio 2. Data Pre-processing with Titanic Dataset</p>	2.5 Hrs.
Day-2	<p>Machine Learning with Python</p> <p>Regression Algorithms:</p> <ul style="list-style-type: none"> - Linear Regression - MultilinearRegression <p>Classification Algorithms</p> <ul style="list-style-type: none"> - Logistic Regression Algorithm - Random Forest Algorithm - Decision Tree Algorithm - K-Nearest Neighbours <p>Lab: Model Development with Different Algorithms</p>	2.5 Hrs.
Day-3	<p>IBM Cognos Analytics</p> <ul style="list-style-type: none"> - Introduction to Cognos Analytics - Business Intelligence - Features, Components and types of Cognos 	2.5 Hrs.

	Buiding Dashboard with Cognos <ul style="list-style-type: none"> - Introduction to Dashboard - Different tyoes of visualization - Different Operations in IBM Cognos <p>Lab: Covid-19 Vaccination Dashboard using IBM Cognos Analytics</p>	
Day-4	Machine Learning Model with IBM Using Auto AI <ul style="list-style-type: none"> - Building Machine Learning Model Using Auto AI - Introduction to IBM Node-red - Integrating Machine Learning Model to IBM Node-red <p>Lab: Insurance Premium Prediction</p>	2.5 Hrs.
Day-5	Predictive Analytics and SPSS Modeler <ul style="list-style-type: none"> - Accessing data - Manipulating data - Analyzing data - Classifier Model using SPSS Modeller - Regression Model using SPSS Modeller - <p>Lab: Customer Churn Prediction Modeling</p>	2.5 Hrs.

Prerequisites:

1. Laptops / Computer with Minimum 8GBRAM
2. IBM CloudAccount
3. Good InternetFacility
4. Knowledge on fundamentals of python programming